

Dock-HW Fabrication Document

Layer Stack Legend

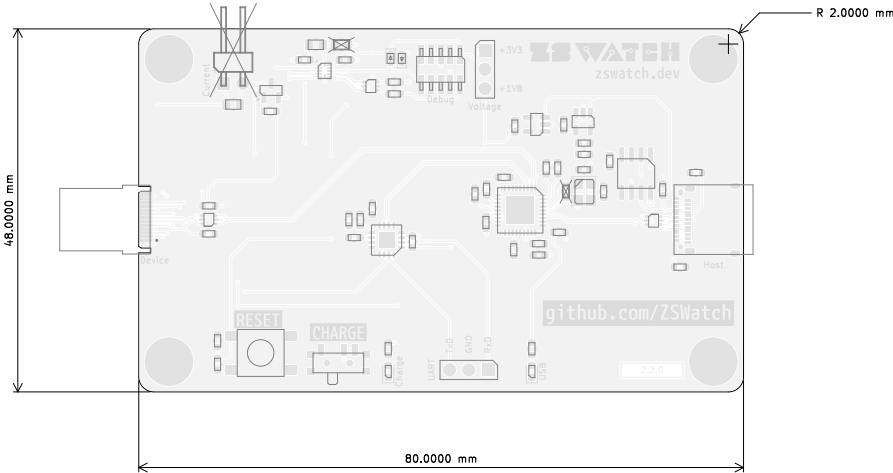
	Material	Layer	Thickness	Dielectric	Type	Gerber
		F,Paste			Paste Mask	
		F,Silkscreen			Legend	GBR
		F,Mask	0,01mm		Solder Mask	GBR
	Copper	F,Cu	0,035mm (1oz)		Signal	GBR
	Core		0,1855mm	FR4	Dielectric	
	Copper	Inner1	0,035mm (1oz)		Plane	GBR
	Prepreg		0,23mm	FR4	Dielectric	
	Copper	Inner2	0,035mm (1oz)		Plane	GBR
	Core		0,1855mm	FR4	Dielectric	
	Copper	B,Cu	0,035mm (1oz)		Signal	GBR
		B,Mask	0,01mm		Solder Mask	GBR
		B,Silkscreen			Legend	GBR
		B,Paste			Paste Mask	

Total thickness: 0,761mm
Note: external layer thicknesses are specified after plating

Impedance Table

Transmission Line	Impedance [ohms]	Tolerance [%]	Layer	Trace Width [mm]	Gap [mm]	Ref. Layers
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Top Fabrication (Scale 1:1)



FABRICATION NOTES (UNLESS OTHERWISE SPECIFIED)

- FABRICATE PER IPC-6012A CLASS 2.
- OUTLINE DEFINED IN SEPARATE GERBER FILE WITH "Edge_Cuts.GBR" SUFFIX.

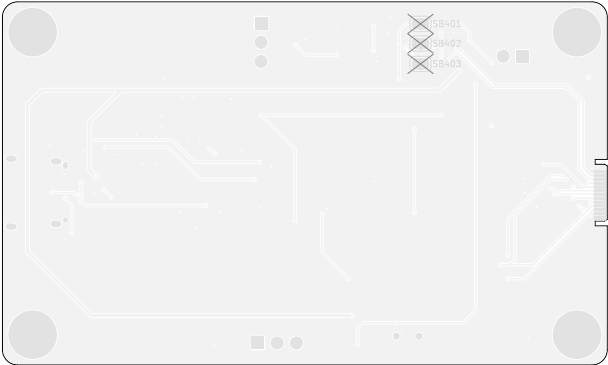
DIMENSIONS OF CIRCUMSIZED RECTANGLE SHOWN ON THIS DRAWING FOR REFERENCE ONLY.
- SEE SEPARATE DRILL FILES WITH ".DRL" SUFFIX FOR HOLE LOCATIONS.

SELECTED HOLE LOCATIONS SHOWN ON THIS DRAWING FOR REFERENCE ONLY.
- SURFACE FINISH: HAL SNPB
- SOLDERMASK ON BOTH SIDES OF THE BOARD SHALL BE LPI, COLOR WHITE.
- SILK SCREEN LEGEND TO BE APPLIED PER LAYER STACKUP USING BLACK NON-CONDUCTIVE EPOXY INK.
- ALL VIAS ARE TENTED ON BOTH SIDES UNLESS SOLDERMASK OPENED IN GERBER.
- VENDOR SHOULD FOLLOW ROHS COMPLIANT PROCESS AND Pb FREE FOR MANUFACTURING
- PCB MATERIAL REQUIREMENTS:

A. FLAMMABILITY RATING MUST MEET OR EXCEED UL94V-0 REQUIREMENTS.
B. Tg 150 C OR EQUIVALENT.
C. EQUIVALENT MATERIAL SHALL BE RoHS COMPLIANT, HALOGEN FREE AND APPROVED BY ZSWATCH.
- DESIGN GEOMETRY MINIMUM FEATURE SIZES:

BOARD SIZE 80.000 x 48.000 mm
BOARD THICKNESS 0.761 mm
TRACE WIDTH 0.170 mm
TRACE TO TRACE 0.125 mm
MIN. HOLE (PTH) 0.250 mm
MIN. HOLE (NPTH) 0.650 mm
ANNULAR RING 0.100 mm
COPPER TO HOLE 0.100 mm
COPPER TO EDGE 0.100 mm
HOLE TO HOLE 0.250 mm

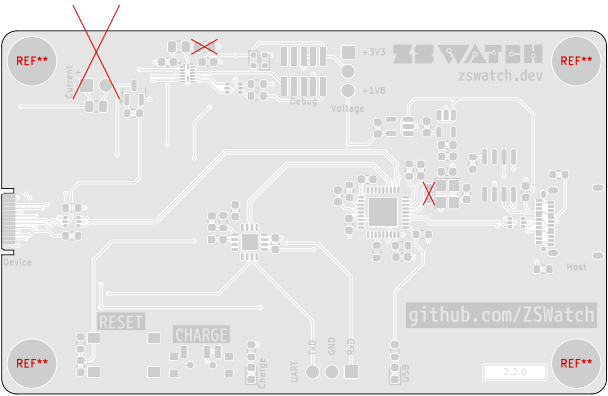
	Comments: ZSWatch	Company: ZSWatch		Variant: RELEASED	Git Hash: 410ce08
		Board Name: Dock-HW		Project Name: ZSWatch Dock	
	Sheet Title: Top Fabrication (Scale 1:1)	File Name: ZSWatch-Dock.kicad_pcb	Designer: Daniel Kampert	Date: 2025-07-13	Revision: 2.2.0
	Sheet Path:		Reviewer:	Size: A3	Sheet: 1 of 10

	1	2	3	4	5	6	7	8
A	<div>Dock-HW Fabrication Document</div>							
B	<div>Bottom Fabrication (Scale 1:1)</div>							
C								
D								
E								
F						<div><div>Comments:</div><div>ZSWatch</div></div>	<div><div>Company:</div><div>ZSWatch</div></div> <div><div>Board Name:</div><div>Dock-HW</div></div>	<div><div>Variant:</div><div>RELEASED</div></div> <div><div>Project Name:</div><div>ZSWatch Dock</div></div>
						<div><div>Sheet Title:</div><div>Bottom Fabrication (Scale 1:1)</div></div>	<div><div>File Name:</div><div>ZSWatch-Dock.kicad_pcb</div></div>	<div><div>Designer:</div><div>Daniel Kampert</div></div>
						<div><div>Sheet Path:</div></div>	<div><div>Reviewer:</div></div>	<div><div>Size:</div><div>A3</div></div> <div><div>Sheet:</div><div>2 of 10</div></div>
	1	2	3	4	5	6	7	8

Comments: ZSWatch	Company: ZSWatch		Variant: RELEASED		Git Hash: 410ce08	
	Board Name: Dock-HW		Project Name: ZSWatch Dock			
Sheet Title: Drill Drawing (L1 - L4)	File Name: ZSWatch-Dock.kicad_pcb		Designer: Daniel Kampert	Date: 2025-07-13	Revision: 2.2.0	
Sheet Path:			Reviewer:	Size: A3	Sheet: 3 of 10	

Dock-HW Fabrication Document

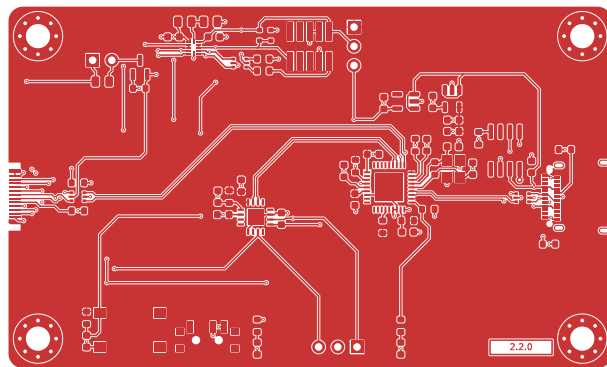
Top Test Points (Scale 1:1)



Ref.	Net	X [mm]	Y [mm]
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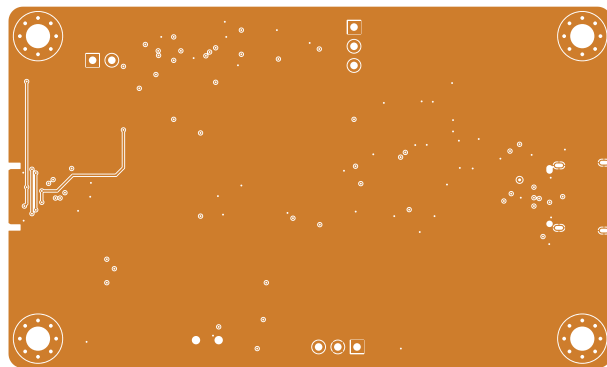
Ref.	Net	X [mm]	Y [mm]
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		Board Name: Dock-HW		Project Name: ZSWatch Dock	
	Sheet Title: Top Test Points (Scale 1:1)	File Name: ZSWatch-Dock.kicad_pcb	Designer: Daniel Kampert	Date: 2025-07-13	Revision: 2.2.0
	Sheet Path:		Reviewer:	Size: A3	Sheet: 5 of 10

Dock-HW Fabrication Document										
F.Cu (Scale 1:1)										
										
					Comments:		Company:		Variant:	Git Hash:
					ZSWatch		ZSWatch		RELEASED	410ee08
									Board Name:	
					Sheet Title:		File Name:	Designer:	Date:	Revision:
F.Cu (Scale 1:1)		ZSWatch-Dock.kicad_pcb	Daniel Kampert	2025-07-13	2.2.0					
Sheet Path:			Reviewer:		Size:	Sheet:				
					A3	7 of 10				

Dock-HW Fabrication Document

Inner2 (Scale 1:1)

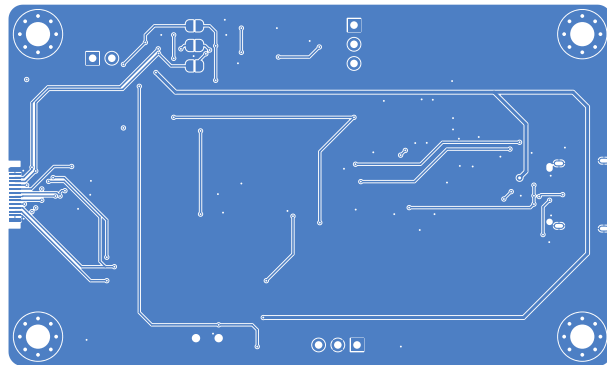


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			Board Name: Dock-HW		Project Name: ZSWatch Dock	
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	Sheet Path:		Reviewer:	Size: A3	Sheet: 9 of 10	

	Comments: ZSWatch	Company: ZSWatch		Variant: RELEASED	Git Hash: 410ce08
		Board Name: Dock-HW		Project Name: ZSWatch Dock	
	Sheet Title: Inner2 (Scale 1:1)	File Name: ZSWatch-Dock.kicad_pcb	Designer: Daniel Kampert	Date: 2025-07-13	Revision: 2.2.0
	Sheet Path:		Reviewer:	Size: A3	Sheet: 9 of 10

Dock-HW Fabrication Document

B.Cu (Scale 1:1)



	<div>Comments:</div> ZSWatch	<div>Company:</div> ZSWatch		<div>Variant:</div> RELEASED	<div>Git Hash:</div> 410ee08
		<div>Board Name:</div> Dock-HW		<div>Project Name:</div> ZSWatch Dock	
	<div>Sheet Title:</div> B.Cu (Scale 1:1)	<div>File Name:</div> ZSWatch-Dock.kicad_pcb	<div>Designer:</div> Daniel Kampert	<div>Date:</div> 2025-07-13	<div>Revision:</div> 2.2.0
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